

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/585,459
Source: IFWP
Date Processed by STIC: 7/17/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 07/17/2006

PATENT APPLICATION: US/10/585,459

TIME: 10:43:00

Input Set : A:\40666.txt

Output Set : N:\CRF4\07172006\J585459.raw

3 <110> APPLICANT: LIU et al.
 5 <120> TITLE OF INVENTION: M-CSF-SPECIFIC MONOCLONAL ANTIBODY AND USES THEREOF
 7 <130> FILE REFERENCE: 21601.003
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/585,459
 C--> 10 <141> CURRENT FILING DATE: 2006-07-07
 12 <150> PRIOR APPLICATION NUMBER: US 60/535,181
 13 <151> PRIOR FILING DATE: 2004-01-07
 15 <150> PRIOR APPLICATION NUMBER: US 60/576,417
 16 <151> PRIOR FILING DATE: 2004-06-02
 18 <160> NUMBER OF SEQ ID NOS: 137
 20 <170> SOFTWARE: PatentIn version 3.3
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 1401
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Mus musculus
 27 <400> SEQUENCE: 1
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 30 gtgcagcttc aggagtcagg acctggcctc gtgaaacctt ctgagagtct gtccttcacc 120
 32 tgtactgtca ctgactactc catcaccagt gattacgcct ggaactggat acggcaattc 180
 34 ccaggggaata aacttgagtg gatgggggtac ataagctaca gtggtagcac ttcctacaat 240
 36 ccatctctca aaagtcggat ctccatcact cgagacacat ccaagaacca gttcttcctg 300
 38 cagctgaact ctgtgactac tgaggacaca gccacatatt actgtgcatc ctctgactat 360
 40 gcccacgcca tggattactg gggccaaggg acttcgggtc ctgtctcttc cgccaaaaca 420
 42 acagcccat cggtctatcc actggccctt gtgtgtggag atacaactgg ctctcggtg 480
 44 actctaggat gcctggtcaa gggttatttc cctgagccag tgacctgac ctggaactct 540
 46 ggatccctgt ccagtgggtg gcacaccttc ccagtgtcc tgcagtctga cctctacacc 600
 48 ctgagcagct cagtgactgt aacctcgagc acctggccca gccagtccat cacctgcaat 660
 50 gtggcccacc cggcaagcag caccaagggtg gacaagaaaa ttgagcccag agggcccaca 720
 52 atcaagccct gtcctccatg caaatgcccc gcacctaac tcttgggtgg accatccgtc 780
 54 ttcattcttc ctccaaagat caaggatgta ctcatgatct cctgagccc catagtcaca 840
 56 tgtgtggtgg tggatgtgag cgaggatgac ccagatgtcc agatcagctg gtttgtgaac 900
 58 aacgtggaag tacacacagc tcagacacaa acccatagag aggattacaa cagtactctc 960
 60 cgggtggtca gtgccctccc catccagcac caggactgga tgagtggcaa ggagttcaaa 1020
 62 tgcaagggtca acaacaaaga cctcccagcg cccatcgaga gaacctctc aaaacccaaa 1080
 64 gggtcagtaa gagctccaca ggtatatgtc ttgcctccac cagaagaaga gatgactaag 1140
 66 aaacaggtca ctctgacctg catggtcaca gacttcatgc ctgaagacat ttacgtggag 1200
 68 tggaccaaca acgggaaaac agagctaaac tacaagaaca ctgaaccagt cctggactct 1260
 70 gatggttctt acttcatgta cagcaagctg agagtggaaa agaagaactg ggtggaaaga 1320
 72 aatagctact cctgttcagt ggtccacgag ggtctgcaca atcaccacac gactaagagc 1380
 74 ttctcccga ctccgggtaa a 1401
 77 <210> SEQ ID NO: 2
 78 <211> LENGTH: 447
 79 <212> TYPE: PRT

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80 <213> ORGANISM: Mus musculus

82 <400> SEQUENCE: 2

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89          20          25          30
92 Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
93          35          40          45
96 Met Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr Asn Pro Ser Leu
97          50          55          60
100 Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Phe Phe
101 65          70          75          80
104 Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
105          85          90          95
108 Ala Ser Phe Asp Tyr Ala His Ala Met Asp Tyr Trp Gly Gln Gly Thr
109          100          105          110
112 Ser Val Thr Val Ser Ser Ala Lys Thr Thr Ala Pro Ser Val Tyr Pro
113          115          120          125
116 Leu Ala Pro Val Cys Gly Asp Thr Thr Gly Ser Ser Val Thr Leu Gly
117          130          135          140
120 Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Leu Thr Trp Asn
121 145          150          155          160
124 Ser Gly Ser Leu Ser Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
125          165          170          175
128 Ser Asp Leu Tyr Thr Leu Ser Ser Ser Val Thr Val Thr Ser Ser Thr
129          180          185          190
132 Trp Pro Ser Gln Ser Ile Thr Cys Asn Val Ala His Pro Ala Ser Ser
133          195          200          205
136 Thr Lys Val Asp Lys Lys Ile Glu Pro Arg Gly Pro Thr Ile Lys Pro
137          210          215          220
140 Cys Pro Pro Cys Lys Cys Pro Ala Pro Asn Leu Leu Gly Gly Pro Ser
141 225          230          235          240
144 Val Phe Ile Phe Pro Pro Lys Ile Lys Asp Val Leu Met Ile Ser Leu
145          245          250          255
148 Ser Pro Ile Val Thr Cys Val Val Val Asp Val Ser Glu Asp Asp Pro
149          260          265          270
152 Asp Val Gln Ile Ser Trp Phe Val Asn Asn Val Glu Val His Thr Ala
153          275          280          285
156 Gln Thr Gln Thr His Arg Glu Asp Tyr Asn Ser Thr Leu Arg Val Val
157          290          295          300
160 Ser Ala Leu Pro Ile Gln His Gln Asp Trp Met Ser Gly Lys Glu Phe
161 305          310          315          320
164 Lys Cys Lys Val Asn Asn Lys Asp Leu Pro Ala Pro Ile Glu Arg Thr
165          325          330          335
168 Ile Ser Lys Pro Lys Gly Ser Val Arg Ala Pro Gln Val Tyr Val Leu
169          340          345          350
172 Pro Pro Pro Glu Glu Glu Met Thr Lys Lys Gln Val Thr Leu Thr Cys
173          355          360          365
176 Met Val Thr Asp Phe Met Pro Glu Asp Ile Tyr Val Glu Trp Thr Asn

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177      370      375      380
180 Asn Gly Lys Thr Glu Leu Asn Tyr Lys Asn Thr Glu Pro Val Leu Asp
181 385      390      395      400
184 Ser Asp Gly Ser Tyr Phe Met Tyr Ser Lys Leu Arg Val Glu Lys Lys
185      405      410      415
188 Asn Trp Val Glu Arg Asn Ser Tyr Ser Cys Ser Val Val His Glu Gly
189      420      425      430
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193      435      440      445
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197 <211> LENGTH: 702
198 <212> TYPE: DNA
199 <213> ORGANISM: Mus musculus
201 <400> SEQUENCE: 3
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206 ttctcctgca gggccagtc gagcattggc acaagcatac actggtatca gcaaagaaca      180
208 aatggttctc caaggcttct cataaagtat gcttctgagt ctatctctgg gatcccttcc      240
210 aggttttagt gcagtggatc agggacagat tttactctta gcatcaacag tgtggagtct      300
212 gaagatattg cagattatta ctgtcaacaa attaatagct ggccaaccac gttcggcggg      360
214 gggacaaagt tggaaataaa acgggctgat gctgcaccaa ctgtatccat cttcccacca      420
216 tccagtggag agttaacatc tggaggtgcc tcaagtctgt gcttcttgaa caacttctac      480
218 cccaaagaca tcaatgtcaa gtggaagatt gatggcagtg aacgacaaaa tggcgctctg      540
220 aacagttgga ctgatcagga cagcaaagac agcacctaca gcatgagcag caccctcacg      600
222 ttgaccaagg acgagtatga acgacataac agctatacct gtgaggccac tcacaagaca      660
224 tcaacttcac ccattgtcaa gagcttcaac aggaatgagt gt      702
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228 <211> LENGTH: 214
229 <212> TYPE: PRT
230 <213> ORGANISM: Mus musculus
232 <400> SEQUENCE: 4
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235 1      5      10      15
238 Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Ser Ile Gly Thr Ser
239      20      25      30
242 Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
243      35      40      45
246 Lys Tyr Ala Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
247      50      55      60
250 Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Ser Val Glu Ser
251 65      70      75      80
254 Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ile Asn Ser Trp Pro Thr
255      85      90      95
258 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala
259      100      105      110
262 Pro Thr Val Ser Ile Phe Pro Pro Ser Ser Glu Gln Leu Thr Ser Gly
263      115      120      125
266 Gly Ala Ser Val Val Cys Phe Leu Asn Asn Phe Tyr Pro Lys Asp Ile
267      130      135      140

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270 Asn Val Lys Trp Lys Ile Asp Gly Ser Glu Arg Gln Asn Gly Val Leu
271 145          150          155          160
274 Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser Thr Tyr Ser Met Ser
275          165          170          175
278 Ser Thr Leu Thr Leu Thr Lys Asp Glu Tyr Glu Arg His Asn Ser Tyr
279          180          185          190
282 Thr Cys Glu Ala Thr His Lys Thr Ser Thr Ser Pro Ile Val Lys Ser
283          195          200          205
286 Phe Asn Arg Asn Glu Cys
287          210
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291 <211> LENGTH: 109
292 <212> TYPE: PRT
293 <213> ORGANISM: Mus musculus
295 <400> SEQUENCE: 5
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298 1          5          10          15
301 Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Ser Ile Gly Thr Ser
302          20          25          30
305 Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
306          35          40          45
309 Lys Tyr Ala Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
310          50          55          60
313 Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Ser Val Glu Ser
314 65          70          75          80
317 Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ile Asn Ser Trp Pro Thr
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321 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala
322          100          105
325 <210> SEQ ID NO: 6
326 <211> LENGTH: 118
327 <212> TYPE: PRT
328 <213> ORGANISM: Mus musculus
330 <400> SEQUENCE: 6
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336 Ser Leu Ser Leu Thr Cys Thr Val Thr Asp Tyr Ser Ile Thr Ser Asp
337          20          25          30
340 Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
341          35          40          45
344 Met Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr Asn Pro Ser Leu
345          50          55          60
348 Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Phe Phe
349 65          70          75          80
352 Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
353          85          90          95
356 Ala Ser Phe Asp Tyr Ala His Ala Met Asp Tyr Trp Gly Gln Gly Thr
357          100          105          110
360 Ser Val Thr Val Ser Ser

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365 <211> LENGTH: 256
366 <212> TYPE: PRT
367 <213> ORGANISM: Mus musculus
369 <400> SEQUENCE: 7
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375 Gly Ser Leu Leu Leu Leu Val Cys Leu Leu Ala Ser Arg Ser Ile Thr
376          20          25          30
379 Glu Glu Val Ser Glu Tyr Cys Ser His Met Ile Gly Ser Gly His Leu
380          35          40          45
383 Gln Ser Leu Gln Arg Leu Ile Asp Ser Gln Met Glu Thr Ser Cys Gln
384          50          55          60
387 Ile Thr Phe Glu Phe Val Asp Gln Glu Gln Leu Lys Asp Pro Val Cys
388 65          70          75          80
391 Tyr Leu Lys Lys Ala Phe Leu Leu Val Gln Asp Ile Met Glu Asp Thr
392          85          90          95
395 Met Arg Phe Arg Asp Asn Thr Pro Asn Ala Ile Ala Ile Val Gln Leu
396          100         105         110
399 Gln Glu Leu Ser Leu Arg Leu Lys Ser Cys Phe Thr Lys Asp Tyr Glu
400          115         120         125
403 Glu His Asp Lys Ala Cys Val Arg Thr Phe Tyr Glu Thr Pro Leu Gln
404          130         135         140
407 Leu Leu Glu Lys Val Lys Asn Val Phe Asn Glu Thr Lys Asn Leu Leu
408 145         150         155         160
411 Asp Lys Asp Trp Asn Ile Phe Ser Lys Asn Cys Asn Asn Ser Phe Ala
412          165         170         175
415 Glu Cys Ser Ser Gln Gly His Glu Arg Gln Ser Glu Gly Ser Ser Ser
416          180         185         190
419 Pro Gln Leu Gln Glu Ser Val Phe His Leu Leu Val Pro Ser Val Ile
420          195         200         205
423 Leu Val Leu Leu Ala Val Gly Gly Leu Leu Phe Tyr Arg Trp Arg Arg
424          210         215         220
427 Arg Ser His Gln Glu Pro Gln Arg Ala Asp Ser Pro Leu Glu Gln Pro
428 225         230         235         240
431 Glu Gly Ser Pro Leu Thr Gln Asp Asp Arg Gln Val Glu Leu Pro Val
432          245         250         255
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436 <211> LENGTH: 554
437 <212> TYPE: PRT
438 <213> ORGANISM: Mus musculus
440 <400> SEQUENCE: 8
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446 Gly Ser Leu Leu Leu Leu Val Cys Leu Leu Ala Ser Arg Ser Ile Thr
447          20          25          30
450 Glu Glu Val Ser Glu Tyr Cys Ser His Met Ile Gly Ser Gly His Leu
451          35          40          45

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:39; Xaa Pos. 23,27,29,31,32,33,34,35,36,51,56,57,59,61,84,86,101,102
Seq#:39; Xaa Pos. 103,104,105,106,107,108,109,110,111,112,113,114,115,116
Seq#:39; Xaa Pos. 119,125
Seq#:49; Xaa Pos. 98
Seq#:62; Xaa Pos. 31,32,33,36,37,39,55
Seq#:63; Xaa Pos. 33,36,37,56,57
Seq#:73; Xaa Pos. 1,3,39,40,41,42,45
Seq#:74; Xaa Pos. 3,40,42,45
Seq#:75; Xaa Pos. 45
Seq#:76; Xaa Pos. 44
Seq#:92; Xaa Pos. 1,16,30,33,35,50,52,55,56,58
Seq#:93; Xaa Pos. 23,27,29,32,33,34,35,36,37,52,58,59,61
Seq#:94; Xaa Pos. 31,33,35,49,50,52,53,55,56,58,59
Seq#:103; Xaa Pos. 14,16,31,41,42,43,44,45,46,47,48,49,50,51,52,53,55,56,59
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Seq#:104; Xaa Pos. 59,65
Seq#:105; Xaa Pos. 40,41,42,43,44,45,46,47,48,49,50,51,52,55,56,59
Seq#:106; Xaa Pos. 41,42,43,44,45,46,47,48,49,50,51,52,53,54,55
Seq#:107; Xaa Pos. 42,43,44,45,46,47,48,49,50,51,52,53,54,55
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VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:1609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:16
 M:341 Repeated in SeqNo=39
 L:1937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:96
 L:2352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:16
 M:341 Repeated in SeqNo=62
 L:2395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:32
 M:341 Repeated in SeqNo=63
 L:2638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
 M:341 Repeated in SeqNo=73
 L:2682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
 M:341 Repeated in SeqNo=74
 L:2719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:32
 L:2748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:32
 L:3250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0
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 L:3313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:16
 M:341 Repeated in SeqNo=93
 L:3372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:16
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 L:3606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:0
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 L:3664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0
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 L:3880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:32
 M:341 Repeated in SeqNo=110
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 L:3946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:32
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 L:4767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:0
 M:341 Repeated in SeqNo=124
 L:4937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:0
 M:341 Repeated in SeqNo=125
 L:5027 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:0
 M:341 Repeated in SeqNo=126
 L:5106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:16

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M:341 Repeated in SeqNo=127

L:5272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:0

M:341 Repeated in SeqNo=128

L:5448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:0